

[Subscribe](#) (Full Service) [Register](#) (Limited Service, Free) [Login](#)Search: ☒ The ACM Digital Library ☐ The Guide**SEARCH**

THE ACM DIGITAL LIBRARY

Advanced Search

[? Search](#)
[Tips](#)

Enter words, phrases or names below. Surround phrases or full names with double quotation marks.

Desired Results:must have **all** of the words or phrasesmust have **any** of the words or phrasesmust have **none** of the words or phrases**Name or Affiliation:**Authored ☒ by: ☒ all ☐ any ☐ noneEdited ☒ by: ☒ all ☐ any ☐ noneReviewed ☒ by: ☒ all ☐ any ☐ none**SEARCH****Only search in:***☐ Title ☐ Abstract ☐ Review ☒ All Information

*Searches will be performed on all available information, including full text where available, unless specified above.

ISBN / ISSN: ☒ Exact ☐ ExpandDOI: ☒ Exact ☐ Expand**SEARCH****Published:**By: ☒ all ☐ any ☐ noneIn: ☒ all ☐ any ☐ none

Since:

Before:

 As: **SEARCH****Conference Proceeding:**

Sponsored By:

Conference Location:

Conference Year:

Classification: (CCS) ☐ Primary OnlyClassified as: ☒ all ☐ any ☐ noneSubject Descriptor: ☒ all ☐ any ☐ noneKeyword Assigned: ☒ all ☐ any ☐ none**Results must have accessible:**☐ Full Text ☐ Abstract ☐ Review



The ACM Portal is published by the Association for Computing Machinery. Copyright © 2004 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

This Page Blank (uspto)



[Subscribe](#) (Full Service) [Register](#) (Limited Service, Free) [Login](#)

Search: ☒ The ACM Digital Library ☐ The Guide

+distributed +system +process +processes +failure +failed +

SEARCH

THE ACM DIGITAL LIBRARY



[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Published before May 2001

Terms used

Found 6,069 of 111,468

distributed system process processes failure failed fail replace add remove

Sort results
by

relevance ☒



[Save results to a Binder](#)

Try an [Advanced Search](#)

Display
results

expanded form ☒



[Search Tips](#)

Try this search in [The ACM Guide](#)

☐ Open results in a new
window

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

Relevance scale ☐ ☐ ☐ ☐ ☐

1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Programming languages for distributed computing systems](#)

Henri E. Bal, Jennifer G. Steiner, Andrew S. Tanenbaum

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available: pdf(6.50 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

When distributed systems first appeared, they were programmed in traditional sequential languages, usually with the addition of a few library procedures for sending and receiving messages. As distributed applications became more commonplace and more sophisticated, this ad hoc approach became less satisfactory. Researchers all over the world began designing new programming languages specifically for implementing distributed applications. These languages and their history, their underlying pr ...

3 [Compositional verification of concurrent systems using Petri-net-based condensation rules](#)

Eric Y. T. Juan, Jeffrey J. P. Tsai, Tadao Murata

September 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue 5

Full text available: pdf(578.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The state-explosion problem of formal verification has obstructed its application to large-scale software systems. In this article, we introduce a set of new condensation theories: IOT-failure equivalence, IOT-state equivalence, and firing-dependence theory to cope with



US Patent & Trademark Office

[Subscribe](#) (Full Service) [Register](#) (Limited Service, Free) [Login](#)Search: ☒ The ACM Digital Library ☐ The Guide**SEARCH**

THE ACM DIGITAL LIBRARY

Advanced Search

[? Search](#)
[Tips](#)

Enter words, phrases or names below. Surround phrases or full names with double quotation marks.

Desired Results:must have **all** of the words or phrasesmust have **any** of the words or phrasesmust have **none** of the words or phrases**Name or Affiliation:**Authored ☒ by: ☒ all ☐ any ☐ noneEdited ☒ by: ☒ all ☐ any ☐ noneReviewed ☒ by: ☒ all ☐ any ☐ none**Only search in:***☐ Title ☐ Abstract ☐ Review ☒ All Information**SEARCH**

*Searches will be performed on all available information, including full text where available, unless specified above.

ISBN / ISSN: ☒ Exact ☐ ExpandDOI: ☒ Exact ☐ Expand**SEARCH****Published:**By: ☒ all ☐ any ☐ noneIn: ☒ all ☐ any ☐ none

Since:

Before:

 As: **Conference Proceeding:**

Sponsored By:

Conference Location:

Conference Year:

SEARCH**Classification: (CCS)** ☐ Primary OnlyClassified as: ☒ all ☐ any ☐ noneSubject Descriptor: ☒ all ☐ any ☐ noneKeyword Assigned: ☒ all ☐ any ☐ none**Results must have accessible:**☐ Full Text ☐ Abstract ☐ Review

SEARCH

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2004 ACM, Inc.
[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

This Page Blank (uspto)


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)

 Search: ☒ The ACM Digital Library ☐ The Guide


[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Published before May 2001

Terms used **atomic recovery process replace add remove**

Found 1,152 of 111,468

Sort results by

☒ [Save results to a Binder](#)
[Try an Advanced Search](#)

Display results

☒ [Search Tips](#)
[Try this search in The ACM Guide](#)
☐ Open results in a new window

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

Relevance scale ☐ ☐ ☐ ☐ ☐

1 [Reliable object storage to support atomic actions](#)

Brian M. Oki, Barbara H. Liskov, Robert W. Scheifler

 December 1985 **ACM SIGOPS Operating Systems Review , Proceedings of the tenth ACM symposium on Operating systems principles**, Volume 19 Issue 5

 Full text available: [pdf\(939.13 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Principles of transaction-oriented database recovery](#)

Theo Haerder, Andreas Reuter

 December 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 4

 Full text available: [pdf\(2.48 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

3 [Implementation of resilient, atomic data types](#)

William Weihl, Barbara Liskov

 April 1985 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 7 Issue 2

 Full text available: [pdf\(2.19 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A major issue in many applications is how to preserve the consistency of data in the presence of concurrency and hardware failures. We suggest addressing this problem by implementing applications in terms of abstract data types with two properties: Their objects are atomic (they provide serializability and recoverability for activities using them) and resilient (they survive hardware failures with acceptably high probability). We define what it means for abstract data types to be atomic and ...

4 [A model for concurrency in nested transactions systems](#)

Catriel Beer, Philip A. Bernstein, Nathan Goodman

 April 1989 **Journal of the ACM (JACM)**, Volume 36 Issue 2

 Full text available: [pdf\(3.73 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Today's standard model for database concurrency control, called serializability theory, represents executions of transactions as partial orders of operations. The theory tells when an execution is serializable, that is, when the set of operations of a transaction execute

[IEEE HOME](#) | [SEARCH IEEE](#) | [SHOP](#) | [WEB ACCOUNT](#) | [CONTACT IEEE](#)[Membership](#) | [Publications/Services](#) | [Standards](#) | [Conferences](#) | [Careers/Jobs](#)**IEEE Xplore®**
RELEASE 1.8Welcome
United States Patent and Trademark Office

» Se.

[Help](#) | [FAQ](#) | [Terms](#) | [IEEE Peer Review](#)[Quick Links](#)**Welcome to IEEE Xplore®**

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

IEEE Enterprise

- ☐ Access the IEEE Enterprise File Cabinet

**Print Format**

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Your search matched **0** of **1071730** documents.A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.**Refine This Search:**

You may refine your search by editing the current search expression or enter a new one in the text box.

Search☐ Check to search within this result set**Results Key:****JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard**Results:****No documents matched your query.**

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Publications/Services Standards Conferences Careers/Jobs

IEEE Xplore®
 RELEASE 1.8

 Welcome
 United States Patent and Trademark Office

[Help](#) [FAQ](#) [Terms](#) [IEEE Peer Review](#)
[Quick Links](#)

Welcome to IEEE Xplore®

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

IEEE Enterprise

- ☐ Access the IEEE Enterprise File Cabinet

Print Format

Your search matched **83** of **1071730** documents.A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.**Refine This Search:**

You may refine your search by editing the current search expression or enter a new one in the text box.

distributed system<and>atomic <and>process

☐ Check to search within this result set
Results Key:**JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard**1 Atomic broadcast in asynchronous crash-recovery distributed systems***Rodrigues, L.; Raynal, M.;*

Distributed Computing Systems, 2000. Proceedings. 20th International Conference on , 10-13 April 2000

Pages:288 - 295

[\[Abstract\]](#)
[\[PDF Full-Text \(112 KB\)\]](#)

IEEE CNF

2 Atomic broadcast in asynchronous crash-recovery distributed systems and its use in quorum-based replication*Rodrigues, L.; Raynal, M.;*

Knowledge and Data Engineering, IEEE Transactions on , Volume: 15 , Issue: 5 , Sept.-Oct. 2003

Pages:1206 - 1217

[\[Abstract\]](#)
[\[PDF Full-Text \(1842 KB\)\]](#)

IEEE JNL

3 Probabilistic atomic broadcast*Felber, P.; Pedone, F.;*

Reliable Distributed Systems, 2002. Proceedings. 21st IEEE Symposium on , Oct. 2002

Pages:170 - 179

[\[Abstract\]](#)
[\[PDF Full-Text \(590 KB\)\]](#)

IEEE CNF

4 Consensus-based fault-tolerant total order multicast*Fritzke, U., Jr; Ingels, P.; Mostefaoui, A.; Raynal, M.;*

Parallel and Distributed Systems, IEEE Transactions on , Volume: 12 , Issue: 2 , Feb. 2001

Pages:147 - 156

[IEEE HOME](#) | [SEARCH IEEE](#) | [SHOP](#) | [WEB ACCOUNT](#) | [CONTACT IEEE](#)[Membership](#) | [Publications/Services](#) | [Standards](#) | [Conferences](#) | [Careers/Jobs](#)**IEEE Xplore®**
RELEASE 1.8Welcome
United States Patent and Trademark Office

» Se

[Help](#) | [FAQ](#) | [Terms](#) | [IEEE Peer Review](#)[Quick Links](#)**Welcome to IEEE Xplore®**

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

IEEE Enterprise

- ☐ Access the IEEE Enterprise File Cabinet

Your search matched **0** of **1071730** documents.A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.**Refine This Search:**

You may refine your search by editing the current search expression or enter a new one in the text box.

☐ Check to search within this result set**Results Key:****JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard**Results:****No documents matched your query.** **Print Format**[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved